MassDOT - Highway Division
Project Development and Design Guide
Appendix 9-A-1, Pavement Design Checklist

I. Project Identification

City/Town: Acton and Maynard	Project Number: 604531
Street/Rte. No.: Assabet River Rail Trail	Functional Class: Bicycle Path
From Station: 1+25.59	To Station: 272+63.37
From (Landmark): Stow/Maynard Town Line	To (Landmark): South Acton
Date: 10-07-2011	Design Engineer: AECOM

II. Traffic Data

Current ADT (year): Occasional car/pick-up	Future ADT (Year)*: Same as current.
T (ADT): N/A or emergency vehicle	T (PEAK HR.): N/A
No. of Lanes: 2	Divided/Undivided: Undivided
No. of Shoulders: 2	

III. Existing Pavement Information

Year Initially Constructed: N/A	Overlaid: N/A

Existing Pavement Structure**

Layer	Depth	Type
Surface	N/A	
Base	N/A	
Subbase	N/A	

Document Existing Pavement Distress ***

Type	Extent (percentages)	Severity			Depth Inches
		High	Medium	Low	
[ ] Alligator Cracking					
[ ] Block Cracking					
[ ] Other Cracking (tranverse, longitudinal, reflective)					
[ ] Lane/Shoulder Dropoff					
[ ] Potholes					
[ ] Rutting (wheelpaths)					
[ ] Alligator Cracking					
[ ] Delamination					
[ ] Utility Patches					

Notes: * Minimum 20 yr. servicelife
** If existing pavement is Portland Cement Concrete, provide detailed description.
*** Provide photographs as needed to demonstrate pavement distress

IV. Proposed Corrective Work to Existing Pavement (if any)

[ ] Resurfacing	[ ] Subdrainage Pipes
[x] Full Depth Construction	[ ] Deep Patching/Pothole Filling
[ ] Pavement Preservation Treatment	[ ] Localized Repairs
[ ] Pavement Milling	[ ] Crack Sealing *
[ ] Pavement Micromilling	[ ] SAMI, Fabric Interlayer or other
[ ] Pavement Shims	

Discussion (if needed):

Any special site conditions which may limit the practical choices.-- N/A

V. Proposed Scope of Work

[x] New Pavement	[ ] Pavement Overlay
[ ] Reconstructed Pavement	[ ] With widening
[ ] Full Depth Reclamation	[ ] Without widening
[ ] Surface Recycling (hot/cold in place)	[ ] With corrective work to existing pavement
[ ] Cold-Mix	[ ] Without corrective work to existing pavement
[x] Hot-Mix	[ ] Pavement Preservation

Discussion (if needed):

Work will consist of the construction of a rail trail bicycle path. The proposed path will vary from 8' to 12' wide with a 2' wide grass or paved shoulder depending on site constraints. In some areas, the grading of the existing alignment provides little cover to the top of existing box culvert structure. Portions of the proposed route contain existing railroad rails and ties. In urban areas, the path alignment traverses existing concrete sidewalk and HMA pavement.

VI. Briefly discuss reasons for proposed work, including estimated costs and any special site conditions which may limit the practical choices.

Discussion (if needed):

The proposed rail trail will provide a connection between the towns of Marlborough, Hudson, Maynard, and Acton. It will connect these towns to riverfront, wooded areas, and the Assabet River National Wildlife Refuge. Proposed trail usage will include both recreation and commuter use, and it will be used by bicyclists, roller bladers, joggers, walkers, wheelchairs, and baby carriages.

* Only done under certain circumstance and with the approval of PDE